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PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT:

Christine VÖLKER - 1 PCT

SERIAL NO.:

10/540,080

GROUP: 2837

FILED:

JUNE 22, 2005

FOR:

AIRBORNE-SOUND ABSORBING COMPONENT

MAIL STOP AMENDMENT Commissioner of Patents P.O. Box 1450 Alexandria, VA 22313-1450

Dear Sir:

Enclosed herewith is the International Preliminary Report on Patentability in the English.

Respectfully submitted, Christine VÖLKER

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Enclosures: International Preliminary Report on Patentability.

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Mail Stop: PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on September 28, 2006.

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PATENT COOPERATION TREATY

From the INTERNATIONAL BUREAU

PCT

NOTIFICATION OF TRANSMITTAL
OF COPIES OF TRANSLATION
OF THE INTERNATIONAL PRELIMINARY REPORT
ON PATENTABILITY
(CHAPTER 1 OR CHAPTER II
OF THE PATENT COOPERATION TREATY)
(PCT Rules 44bis.3(c) and 72.2)

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Date of mailing (day/month/year)
08 September 2006 (08.09.2006)

Applicant's or agent's file reference

Applicant's or agent's file reference 031156WO

International application No. PCT/EP2004/011899

IMPORTANT NOTIFICATION

International filing date (day/month/year) 21 October 2004 (21.10.2004)

Applicant

a.

CARCOUSTICS TECH CENTER GMBH et al

١.	Transmittal	of the	translation	to	the a	oplicant.

The International Bureau transmits herewith a copy of the English translation of the international preliminary report on patentability (Chapter I).

The International Bureau transmits herewith a copy of the English translation of the international preliminary report on patentability (Chapter II).

2. Transmittal of the copy of the translation to the designated or elected Offices.

The International Bureau notifies the applicant that copies of that translation have been transmitted to the following designated or elected Offices requiring such translation:

None

The following designated or elected Offices, having waived the requirement for such a transmittal at this time, will receive copies of that translation from the International Bureau only upon their request:

AE, AG, AL, AM, AP, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DK, DM, DZ, EA, EC, EE, EG, EP, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OA, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

3. Reminder regarding translation into (one of) the official language(s) of the elected Office(s).

The applicant is reminded that, where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary report on patentability (Chapter II).

It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned within the applicable time limit (Rule 74.1). See Volume II of the PCT Applicant's Guide for further details.

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland

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PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference 031156WO	FOR FURTHER ACTION	See item 4 below			
International application No. PCT/EP2004/011899	International filing date (day/month/year) 21 October 2004 (21.10.2004)	Priority date (day/month/year) 23 December 2003 (23.12.2003)			
International Patent Classification (8th edition unless older edition indicated) See relevant information in Form PCT/ISA/237					
Applicant CARCOUSTICS TECH CENTER GMBH					

1.	This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 bis.1(a).				
2.	This REPORT consists of a total of 5 sheets, including this cover sheet. In the attached sheets, any reference to the written opinion of the International Searching Authority should be read as a reference				
	to the international preliminary report on patentability (Chapter I) instead.				
3.	This report contains indications relating to the following items:				
	Box No. I	Basis of the report			
	Box No. II	Priority			
	Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability				
	Box No. IV	Lack of unity of invention			
	Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
	Box No. VI	Certain documents cited			
	Box No. VII	Certain defects in the international application			
	Box No. VIII	Box No. VIII Certain observations on the international application			
4.	4. The International Bureau will communicate this report to designated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but not, except where the applicant makes an express request under Article 23(2), before the expiration of 30 months from the priority date (Rule 44bis.2).				
			Date of issuance of this report		
			29 August 2006 (29.08.2006)		
	The International Bure 34, chemin des Col- 1211 Geneva 20, Sw	ombettes	Authorized officer Yolaine Cussac		
Facsir	nile No. +41 22 338 82 70		e-mail: pt11@wipo.int		
Form I	PCT/IB/373 (January 2004)				

PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHOR	ITY		MANSI		
To:			PCT PCT		
			RITTEN OPINION OF THE IONAL SEARCHING AUTHORITY		
	•		(PCT Rule 43bis.1)		
		Date of mailing (day/month/year)	See form PCT/ISA/210		
Applicant's or agent's file reference 031156WO		FOR FURTHER ACTION See paragraph 2 below			
International application No.	International filing date (day(month/year)	Priority date (day/month/year)		
PCT/EP2004/011899	21.10.2004	aay monun year j	23.12.2003		
International Patent Classification (IPC) or both national classification and IPC G10K11/16, G10K11/172					
Applicant CARCOUSTICS TECH CENT	TER GMBH				
1. This opinion contains indications relating to the following items: Box No. I Basis of the opinion					
Name and mailing address of the ISA/EP		Authorized officer	·		
Facsimile No.		Telephone No.			

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/EP2004/011899

Box	: No. I Basis of this opinion
1.	With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.
	This opinion has been established on the basis of a translation from the original language into the following language
	. which is the language of a translation furnished for the purposes of international search (under
	Rule 12.3 and 23.1(b)).
2.	. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:
	a. type of material
	a sequence listing
	table(s) related to the sequence listing
	b. format of material
	in written format
	in computer readable form
	c. time of filing/furnishing
	contained in the international application as filed.
	filed together with the international application in computer readable form.
	furnished subsequently to this Authority for the purposes of search.
3.	In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4.	Additional comments:
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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/EP2004/011899

Box	No. V			de 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; oporting such statement	
1.	Statement				
	Novelty (N)	Claims	1-24	YES
			Claims		NO
	Inventive	step (IS)	Claims	1-24	YES
			Claims		NO
	Industrial	applicability (IA)	Claims	1-24	YES
			Claims		МО

2. Citations and explanations:

1 This opinion makes reference to the following document:

D1: US 6 305 494 B1

- 2 Document D1 is regarded as the closest prior art and discloses a component which absorbs airborne sound according to the preamble of claim 1.
- 2.1 The subject matter of the independent claim 1 differs from this in that: those wall sections which can oscillate and face the sound incidence are closed in an airtight manner, with the resonant absorber being provided with one or more spacers, in such a manner that at least the majority of those wall sections of the hollow chambers which face the sound incidence make no contact with the porous layer and can oscillate independently of it.
- 2.2 The subject matter of claim 1 is thus novel (PCT Article 33(2)). The problem addressed by the present invention can therefore be considered that of the

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/EP2004/011899

Box No. V

Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

component which absorbs airborne sound having an improved sound absorption capability over a wide frequency range, and that it can be produced advantageously.

- 2.3 The solution proposed for this problem in claim 1 of the present application involves an inventive step for the following reasons (PCT Article 33(3)): the sound-absorbent layer arranged in front of the resonant absorber also makes it possible to use the intermediate spaces which exist between the hollow chambers on that side of the resonant absorber which faces the sound for sound absorption.
- 3 Claims 2-24 are dependent on claim 1, and thus likewise meet the PCT requirements for novelty and inventive step.
- 4 There is no doubt as to the industrial applicability of the subject matter of claims 1-24.